Correct. A binomial in the form $a^3 - b^3$ can be factored as $(a - b)\left(a^2 + ab + b^2\right)$.

$$64x^9 - 27y^6 = \left(4x^3\right)^3 - \left(3y^2\right)^3 = \left(4x^3 - 3y^2\right)\left(\left(4x^3\right)^2 + 4x^3 \cdot 3y^2 + \left(3y^2\right)^2\right)$$

$$= \left(4x^3 - 3y^2\right)\left(16x^6 + 12x^3y^2 + 9y^4\right)$$

The missing exponent is 4.