Correct. You applied the rules of exponents correctly to simplify this expression. $9^{-3} \cdot 3^4 \cdot (27)^8 = \left(3^2\right)^{-3} \cdot 3^4 \cdot \left(3^3\right)^8 = 3^{-6} \cdot 3^4 \cdot 3^{24} \text{ which simplifies to } 3^{22}.$