```
l_all_reduce  THM

⊢  ∀T:Type, L:T List, P:(T→𝔹).
|  (∀x∈L.P(x)) ⟺ reduce(λx,y. P(x)∧₂y;true₂;L)
| by RepeatFor 2 (D 0 THENA Auto) THEN ListInd (-1) THEN Reduce 0
|
|\
| 1. T : Type
| 2. T List
| ⊢  ∀P:(T→𝔹). (∀x∈nil.P(x)) ⟺ True  by Auto THEN Easy
|
.\
. 1. T : Type
. 2. T List
. 3. u : T
. 4. v : T List
. 5. ∀P:(T→𝔹). (∀x∈v.P(x)) ⟺ reduce(λx,y. P(x)∧₂y;true₂;v)
. ⊢  ∀P:(T→𝔹).
.    (∀x∈[u / v].P(x)) ⟺ (P(u)∧₂reduce(λx,y. P(x)∧₂y;true₂;v))
.   by ...
.    THEN Easy
END
```