```
factor_divides_evalfactorization  THM

⊢  ∀a,b:ℤ, f:({a..b⁻}→ℕ), j:{a..b⁻}. 0<f(j) ⇒ j | Π↑{a..b⁻}(f)
| by Auto
|
1. a : ℤ
2. b : ℤ
3. f : {a..b⁻}→ℕ
4. j : {a..b⁻}
5. 0<f(j)
⊢  j | Π↑{a..b⁻}(f)
| by Rewrite by
|    Thm*  ∀a,b:ℤ, f:({a..b⁻}→ℕ), z:{a..b⁻}.
|          0<f(z)
|          ⇒
|          Π↑{a..b⁻}(f) = z·Π↑{a..b⁻}(reduce_factorization(f; z))
|    {eval_factorization_pluck}
|    Using:[z:= j]
|
⊢  j | j·Π↑{a..b⁻}(reduce_factorization(f; j))
  by Witness: Π↑{a..b⁻}(reduce_factorization(f; j))
END
```